

Materials Laboratory Library
Selected New Acquisitions October 2006

HARDCOPY BOOKS, REPORTS, MEDIA

Interdisciplinary Interest

Best-Value Procurement Methods for Highway Construction Projects. Transportation Research Board, 2006. NCHRP Report no. 561.
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<http://www.wsdot.wa.gov/research/reports/fullreports/632.1.pdf>

Management and Delivery of Maintenance and Operations Services. Transportation Research Board, 2006. Transportation Research Record no. 1948.
625 HRR 2006 no1948

Operational Remote Sensing Solutions for Estimating Total Impervious Surface Areas. Washington State Dept. of Transportation, 2006. WA-RD 653.1.
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<http://www.wsdot.wa.gov/research/reports/fullreports/653.1.pdf>

Geotechnical Engineering, Engineering Geology

Tunneling in the Pacific Northwest. Seminar sponsored by American Society of Civil Engineers, Seattle Section, Geotechnical Group, and University of Washington, Department of Civil Engineering, 2005.
624.15 AMERICA 2005

Pavements

ACPA Publications CD. American Concrete Pavement Association, 2006.
CDROM 625.84222 ACPA PU 2006

- *Note: Contains Engineering Bulletins, Information Sheets, Joint Products, Pamphlets, Research & Technology Updates, Special Publications, Special Reports, and Technical Bulletins*

Evaluation of the Influence of Tack Coat Construction Factors on the Bond Strength between Pavement Layers. Washington State Dept. of Transportation, 2006. WA-RD 645.1.
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<http://www.wsdot.wa.gov/research/reports/fullreports/645.1.pdf>

Guide for Curing of Portland Cement Concrete Pavements, Volume II. Federal Highway Administration, 2006. FHWA-HRT-05-038.
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Proceedings, Second International Symposium on Maintenance and Rehabilitation of Pavements and Technological Control, July 29-August 1, 2001, Auburn, Alabama, USA.

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Materials, Testing, Inspection

Aggregate Tests for Hot-Mix Asphalt Mixtures Used in Pavements. Transportation Research Board, 2006. NCHRP Report 557.
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http://onlinepubs.trb.org/onlinepubs/nchrp/nchrp_rpt_557.pdf

Development of High Performance Concrete and Evaluation of Construction Joints in Concrete Floating Bridges. Washington State Dept. of Transportation, 2006. WA-RD 649.1.
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<http://www.wsdot.wa.gov/research/reports/fullreports/649.1.pdf>

Field Performance and Laboratory Evaluation of Flexible Delineator Posts, Summer 2005-Winter 2005 Testing Cycle. American Association of State Highway and Transportation Officials, 2006. NTPEP Report 6020.1.
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Laboratory Testing of Concrete Admixtures Final Report, 2006 Test Cycle. American Association of State Highway and Transportation Officials, 2006. NTPEP Report 13002.1.
AASHTO NTPEP 13002.1

Laboratory Testing of Concrete Curing Compounds Final Report, 2006 Test Cycle. American Association of State Highway and Transportation Officials, 2006. NTPEP Report 14003.1.
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Report of Laboratory Evaluations of Rolled Erosion Control Products (December 2002-January 2006 Product Submissions). Association of State Highway and Transportation Officials, 2006. NTPEP Report 12001.5.
AASHTO NTPEP 12001.5

Richland Vicinity Structures Bridges 240/12N & 12S Forensic Review of Transverse Cracking in Decks. Washington State Dept. of Transportation and KBA Construction Management, 2006.
624.283 RICHLAN 2006
http://www.secstate.wa.gov/library/docs/dot/SR240%20Forensic%20ReviewFINAL_2006_001420.doc

ELECTRONIC BOOKS & REPORTS

Geotechnical Engineering, Engineering Geology

Geologic Map of the McMurray 7.5-minute Quadrangle, Skagit and Snohomish Counties, Washington, with a Discussion of the Evidence for Holocene Activity on the Darrington-Devils Mountain Fault Zone. Washington Division of Geology and Earth Resources, 2006.
Geologic Map GM-61. Scale 1:24,000.
<http://www.dnr.wa.gov/geology/pdf/gm61.zip>

Geologic Map of the College Place and Walla Walla 7.5-minute Quadrangles, Walla Walla County, Washington, and Umatilla County, Oregon. Washington Division of Geology and Earth Resources, 2006. Geologic Map GM-62. Scale 1:24,000.
<http://www.dnr.wa.gov/geology/pdf/gm62.pdf>

Geologic Map of the Fox Island 7.5-minute Quadrangle, Pierce County, Washington. Washington Division of Geology and Earth Resources, 2006. Geologic Map GM-63. Scale 1:24,000.
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Geologic Map of the Freeland and Northern Part of the Hansville 7.5-minute Quadrangles, Island County, Washington. Washington Division of Geology and Earth Resources, 2006. Geologic Map GM-64. Scale 1:24,000.
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Geospatial Information Technologies for Asset Management. Transportation Research Board, 2006. Transportation Research E-Circular E-C108.
http://www.trb.org/news/blurb_detail.asp?id=6877

Moisture Effects on PVD and DCP Measurements. Minnesota Dept. of Transportation, 2006.
<http://www.research.dot.state.mn.us/detail.cfm?productID=2039>

Standardizing the Pressuremeter Test for Determining P-Y Curves for Laterally Loaded Piles. Florida Dept. of Transportation, 2006.
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Pavements

Concrete Pavement Surface Characteristics: Evaluation of Current Methods for Controlling Tire-Pavement Noise. Iowa State University Center for Transportation Research and Education, 2006.
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Factors Affecting Compaction of Asphalt Pavements. Transportation Research Board, 2006. Circular E-C105.
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Highway Concrete Pavement Technology Development and Testing Volume II:Field Evaluation of Strategic Highway Research Program (SHRP) C-203 Test Sites (Freeze-Thaw Resistance). Federal Highway Administration, 2006. FHWA-RD-02-083.
<http://www.fhwa.dot.gov/pavement/pccp/pubs/02083/02083.pdf>

Hot Mix Asphalt Voids Acceptance--Review of QC/QA Data 2000 Through 2004. Colorado Dept. of Transportation, 2006.
<http://www.dot.state.co.us/Publications/PDFFiles/Voids2006.pdf>

I 70 Glenwood Canyon Overlay with Trinidad Lake Asphalt/Steel Slag Hot Mix Asphalt. Colorado Dept. of Transportation, 2006.
<http://www.dot.state.co.us/Publications/PDFFiles/tla.pdf>

Rehabilitation of Asphalt Concrete Pavements: Initial Evaluation of the SPS-5 Experiment: Final Report. Federal Highway Administration, 2006. FHWA-RD-01-168
<http://www.fhwa.dot.gov/pavement/pccp/pubs/01168/01168.pdf>

Seasonal Variations in the Moduli of Unbound Pavement Layers. Federal Highway Administration, 2006. FHWA-HRT-04-079.
<http://www.fhwa.dot.gov/pavement/ltp/pubs/04079/04079.pdf>

Materials, Testing, Inspection

Evaluation of Corrosion Resistance of Different Steel Reinforcement Types. Iowa State University Center for Transportation Research and Education, 2006.
http://www.ctre.iastate.edu/reports/corrosion_resistant_steel.pdf

Investigation of American Association of State Highway and Transportation Officials Rut Test Procedure Using the Asphalt Pavement Analyzer. Virginia Transportation Research Council, 2006.
<http://vtrc.viriniadot.org/PubDetails.aspx?PubNo=07-R11>

NEW TITLES ON CIVIL ENGINEERING NET BASE
<http://www.civilengineeringnetbase.com/>

Bridge Engineering: Substructure Design. W.F. Chen and Lian Duan.
Bridge Engineering: Substructure Design focuses on the various components comprising and affecting bridge substructures. These include bearings, piers and columns, towers, abutments and retaining structures, footings and foundations, and bridge hydraulics. For each component, the contributing author addresses the various types of that component, discusses specific selection or design criteria, and provides thorough references.